

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 2003		
BUDGET ACTIVITY 05 - System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604240F B-2 Advanced Technology Bomber					PROJECT 3843	
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost	
3843 B-2 Advanced Technology Bomber	163,452	259,722	176,775	236,609	307,676	90,217	87,872	142,185	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0	
<p>1. In FY 2003, 0604240F B-2 Advanced Technology Bomber, included new start efforts. The B-2 Radar funding will be used to move the APQ-181 radar spectrum band where it can receive a primary user designation and permanent frequency allocation authorization from the National Telecommunications Information Administration (NTIA). The following Low Observable (LO) Maintenance Improvements were New Starts: Hot Trailing Edge, Tailpipe Coatings, and Alternative Door Edge Treatment.</p> <p>2. \$24.7M RDT&E funding misaligned; Belongs in B-2 Procurement.</p> <p>(U) <u>A. Mission Description</u> The B-2 SPIRIT is America's most advanced long-range strike aircraft. This all-wing two crew member aircraft has twin weapons bays of over 20,000 pounds capacity each and employs a wide array of signature reduction technologies to greatly enhance its ability to penetrate enemy defenses and survive in a highly defended target environment. The B-2 provides global force projection capability and the ability to influence an enemy regardless of the location of enemy assets or the availability of forward basing.</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u> (U) \$0 Accomplishments / Planned Program: (U) \$12,585 Continue B-2 Baseline support to include Developmental Flight Test Base of Operations, Baseline Mission Planning Support, LRPP/QRS/IPP Studies, and Baseline Other Government Costs (OGCs). (U) \$129,767 Continue development of EGBU-28 (Congressional Plus-up Program), Link-16/CID/In-Flight Replanner(IFR)(Congressional Plus-up Program), UHF SATCOM, and Smart Bomb Rack Assembly(SBRA) programs. (U) \$21,100 Begin development of EHF SATCOM program. (U) \$163,452 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u> (U) \$0 Accomplishments / Planned Program: (U) \$15,022 Continue B-2 Baseline support to include Developmental Flight Test Base of Operations, Baseline Mission Planning Support, LRPP/QRS/IPP Studies, and Baseline Other Government Costs (OGCs). (U) \$135,850 Continue development of Link-16/CID/IFR, EGBU-28, UHF SATCOM, JDAM-82/SBRA, and EHF-Satcom programs.</p>											
Project 3843			Page 1 of 6 Pages				Exhibit R-2 (PE 0604240F)				

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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2003 (\$ in Thousands) Continued</u></p> <p>(U) \$79,350 Begin development of Radar Frequency Management modification (Congressional Plus-Up Program)</p> <p>(U) \$8,000 Begin development of Aft Deck Cracks program</p> <p>(U) \$4,500 Begin development of Digital Engine Control (DEC) program</p> <p>(U) \$6,800 Begin development of LO Maintenance Improvement: Advanced Hot Trailing Edge (Congressional Plus-Up Program)</p> <p>(U) \$4,300 Begin development of LO Maintenance Improvement: Tailpipe Coatings (Congressional Plus-Up Program)</p> <p>(U) \$5,900 Begin development of LO Maintenance Improvement: Alternative Door Edge Treatment (Congressional Plus-Up Program)</p> <p>(U) \$259,722 Total</p> <p>(U) <u>FY 2004 (\$ in Thousands)</u></p> <p>(U) \$0 Accomplishments / Planned Program:</p> <p>(U) \$13,755 Continue B-2 Baseline support to include Developmental Flight Test Base of Operations, Baseline Mission Planning Support, LRPP/QRS/IPR Studies, and Baseline Other Government Costs (OGCs).</p> <p>(U) \$138,320 Continue development of Link-16/CID/IFR, JDAM-82/SBRA, EHF SATCOM, and Radar Frequency Management modification programs.</p> <p>(U) \$24,700 Misaligned funding; Belongs in B-2 procurement.</p> <p>(U) \$176,775 Total</p> <p>(U) <u>B. Budget Activity Justification</u></p> <p style="padding-left: 20px;">This program is in budget activity 05 - System Development & Demonstration - because of concurrency in developing, testing, producing, and deploying the B-2.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: right;"><u>FY 2002</u></th> <th style="text-align: right;"><u>FY 2003</u></th> <th style="text-align: right;"><u>FY 2004</u></th> <th style="text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: right;">216,962</td> <td style="text-align: right;">225,327</td> <td style="text-align: right;">201,132</td> <td style="text-align: right;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">219,004</td> <td style="text-align: right;">265,327</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Congressional/General Reductions</td> <td style="text-align: right;">-3,213</td> <td style="text-align: right;">-42</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Small Business Innovative Research</td> <td style="text-align: right;">-1,998</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus or Other Above Threshold Reprogram</td> <td style="text-align: right;">-20,033</td> <td style="text-align: right;">-2,759</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. Below Threshold Reprogram</td> <td style="text-align: right;">-5,909</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">e. Rescissions</td> <td style="text-align: right;">-24,399</td> <td style="text-align: right;">-2,804</td> <td></td> <td></td> </tr> </tbody> </table>				<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>	(U) Previous President's Budget	216,962	225,327	201,132	TBD	(U) Appropriated Value	219,004	265,327			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-3,213	-42			b. Small Business Innovative Research	-1,998				c. Omnibus or Other Above Threshold Reprogram	-20,033	-2,759			d. Below Threshold Reprogram	-5,909				e. Rescissions	-24,399	-2,804		
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Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>FY 2006</u></th> <th style="text-align: center;"><u>FY 2007</u></th> <th style="text-align: center;"><u>FY 2008</u></th> <th style="text-align: center;"><u>FY 2009</u></th> <th style="text-align: center;"><u>Cost to</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> <tr> <th></th> <th style="text-align: center;"><u>Actual</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Estimate</u></th> <th style="text-align: center;"><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) A/C Proc, AF, Combat A/C/BA07/B-2A</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>(U) A/C Proc, AF, Post Prod Support/BA07</td> <td style="text-align: right;">11,824</td> <td style="text-align: right;">3,259</td> <td style="text-align: right;">6,919</td> <td style="text-align: right;">7,055</td> <td style="text-align: right;">7,268</td> <td style="text-align: right;">7,426</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) A/C Proc, AF, Modifications/BA05/B-2A</td> <td style="text-align: right;">23,433</td> <td style="text-align: right;">93,462</td> <td style="text-align: right;">76,464</td> <td style="text-align: right;">118,127</td> <td style="text-align: right;">237,326</td> <td style="text-align: right;">282,844</td> <td style="text-align: right;">155,499</td> <td style="text-align: right;">98,111</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) A/C Prod, AF, ICS</td> <td style="text-align: right;">35,838</td> <td style="text-align: right;">33,271</td> <td style="text-align: right;">31,556</td> <td style="text-align: right;">31,828</td> <td style="text-align: right;">22,004</td> <td style="text-align: right;">11,302</td> <td style="text-align: right;">8,535</td> <td style="text-align: right;">9,226</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) A/C Proc, AF, Cmn Spt Eq/BA07/Items<\$2M</td> <td style="text-align: right;">427</td> <td style="text-align: right;">426</td> <td style="text-align: right;">2,023</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) A/C Proc, AF, A/C Initial Spares/BA06/B-2A</td> <td style="text-align: right;">57,312</td> <td style="text-align: right;">8,533</td> <td style="text-align: right;">3,692</td> <td style="text-align: right;">2,272</td> <td style="text-align: right;">6,524</td> <td style="text-align: right;">2,562</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Proc (Other), AF/BA 02,03, 04/B-2A</td> <td style="text-align: right;">7,839</td> <td style="text-align: right;">7,530</td> <td style="text-align: right;">7,549</td> <td style="text-align: right;">7,684</td> <td style="text-align: right;">7,783</td> <td style="text-align: right;">7,941</td> <td style="text-align: right;">8,182</td> <td style="text-align: right;">8,358</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Military Construction/BA01</td> <td style="text-align: center;">0</td> <td style="text-align: right;">35,978</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <u>E. Acquisition Strategy</u> Key elements of the overall acquisition strategy include: use of sole source contract with a prime/integrating contractor (Northrop Grumman); use of cost plus award fee (CPAF) development contracts; and combining developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime and differences in fielded configurations</p>										<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>	(U) Adjustments to Budget Years Since FY 2003 PBR			-24,357		(U) Current Budget Submit/FY 2004 PBR	163,452	259,722	176,775	TBD		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		(U) A/C Proc, AF, Combat A/C/BA07/B-2A	0	0	0	0	0	0	0	0	0	0	(U) A/C Proc, AF, Post Prod Support/BA07	11,824	3,259	6,919	7,055	7,268	7,426	0	0	0	TBD	(U) A/C Proc, AF, Modifications/BA05/B-2A	23,433	93,462	76,464	118,127	237,326	282,844	155,499	98,111	Continuing	TBD	(U) A/C Prod, AF, ICS	35,838	33,271	31,556	31,828	22,004	11,302	8,535	9,226	Continuing	TBD	(U) A/C Proc, AF, Cmn Spt Eq/BA07/Items<\$2M	427	426	2,023	0	0	0	0	0	0	TBD	(U) A/C Proc, AF, A/C Initial Spares/BA06/B-2A	57,312	8,533	3,692	2,272	6,524	2,562	0	0	0	TBD	(U) Proc (Other), AF/BA 02,03, 04/B-2A	7,839	7,530	7,549	7,684	7,783	7,941	8,182	8,358	Continuing	TBD	(U) Military Construction/BA01	0	35,978	0	0	0	0	0	0	0	TBD
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DATE

February 2003

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - System Development and Demonstration (SDD)

0604240F B-2 Advanced Technology Bomber

3843

(U) **F. Schedule Profile**

	<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) JASSM Flight Test Complete	*											
(U) Link-16/CID/IFR Final Design Review		*										
(U) EHF SatCom Contract Award			*									
(U) Radar Frequency Management Mod Dev CAD Contract Award					*							
(U) Aft Deck Repair Contract Award						X						
(U) UHF SatCom Flight Test Complete									X			
(U) EGBU-28 Flight Test Complete									X			
(U) JDAM-82/SBRA Flight Test Complete									X			
(U) Radar Frequency Management Mod Dev SDD Contract Award											X	
(U) Link-16/CID/IFR Flight Test Complete												X
* = Completed event												
x = Planned event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2003			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
05 - System Development and Demonstration (SDD)					0604240F B-2 Advanced Technology Bomber				3843		
(U) A. Project Cost Breakdown (\$ in Thousands)											
						FY 2002		FY 2003		FY 2004	
(U)	Equipment Development & Evaluation					129,168		220,386		146,078	
(U)	Government Test					7,789		14,005		10,860	
(U)	Mission Planning					9,917		12,521		8,140	
(U)	Other Government Costs (OGC)					16,578		12,810		11,697	
(U)	Other					0		0			
(U)	Total					163,452		259,722		176,775	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
	Contractor or Government	Contract Method/Type	Award or Obligation	Performing Activity	Project Office	Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	Total Program
	Performing Activity	or Funding Vehicle	Date	EAC	EAC						
	Product Development Organizations										
	Air Vehicle - NG	Multiple	Multiple			21,288,933	129,168	220,386	146,078	Continuing	TBD
	Aircrew Training	CPIF	Jul 1985	561,345	561,345	561,345					561,345
	Mission Planning	Multiple	Multiple	399,278	399,278	332,337	9,917	12,521	8,140	Continuing	TBD
	Support and Management Organizations										
	Other Govt Costs	N/A				1,045,960	16,578	12,810	11,697	Continuing	TBD
	Test and Evaluation Organizations										
	Govt Test	N/A	N/A			788,560	7,789	14,005	10,860	Continuing	TBD
(U) Government Furnished Property:											
		Contract Method/Type	Award or Obligation	Delivery		Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	Total Program
	Item Description	or Funding Vehicle	Date	Date							

Project 3843

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Exhibit R-3 (PE 0604240F)

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2003		
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05 - System Development and Demonstration (SDD)				0604240F B-2 Advanced Technology Bomber			3843		
(U) <u>Government Furnished Property Continued:</u>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
Engines G.E.	Multiple	Multiple	N/A	566,500					566,500
AARL Boeing		FPIF	Jun 88	125,934				0	125,934
<u>Support and Management Property</u>									
<u>Test and Evaluation Property</u>									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				22,875,049	139,085	232,907	154,218	TBD	TBD
Subtotal Support and Management				1,045,960	16,578	12,810	11,697	TBD	TBD
Subtotal Test and Evaluation				788,560	7,789	14,005	10,860	TBD	TBD
Total Project				24,709,569	163,452	259,722	176,775	TBD	TBD

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